

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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of

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Application Number	09/804,432
Filing Date	July 11, 2001
First Named Inventor	RAGHAVAN, Sreen
Art Unit	2634
Examiner Name	WILLIAMS, Lawrence

Attorney Docket Number

9146.0001-00

SEP 12 2006

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LW		US-2004/0162023	08-19-2004	Cho	
		US-2004/0137941	07-15-2004	Tanaka et al.	
		US-2004/0121753	06-24-2004	Sugar et al.	
		US-2004/0106380	06-03-2004	Vassiliou et al.	
		US-2004/0091028	05-13-2004	Aronson et al.	
		US-2003/0054782	03-20-2003	Snider	
		US-2003/0017809	01-23-2003	Garlepp et al.	
		US-2002/0163974 A1	11-07-2002	Friedman	
		US-2002/0086651	07-04-2002	Prentice et al.	
		US-2002/0039052	04-04-2002	Straub et al.	
		US-6,804,497	10-12-2004	Kerth et al.	
		US-6,731,704	05-04-2004	Kiyanagi	
		US-6,529,303 B1	03-04-2003	Rowan et al.	
		US-6,292,559 B1	09-18-2001	Gaikwad et al.	
		US-6,259,745 B1	07-10-2001	Chan	
		US-5,838,740	11-17-1998	Kallman et al.	
		US-5,822,368 A	10-13-1998	Wang	
V		US-5,285,474 A	02-08-1994	Chow et al.	
LW		US-4,679,225	07-07-1987	Higashiyama	

Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation <sup>6</sup>
LW		EP 0554056 B1	05-27-1998	Fujitsu Limited		
LW		EP 0987830 A	03-22-2000	Mitsubishi Electric Corp.		
LW		WO 99/45683	09-10-1999	Kestrel Solutions, Inc.		
LW		WO 00/51303 A	08-31-2000	Aware Inc.		

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## Complete if Known

Application Number	09/904,432
Filing Date	July 11, 2001
First Named Inventor	RAGHAVAN, Sreen
Art Unit	2634
Examiner Name	WILLIAMS, Lawrence B.

## FOREIGN PATENT DOCUMENTS

LW	WO 03/007564 A	01-23-2003	Myrica Networks Inc.	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation <sup>6</sup>
LW		CLARK, JR., G.C. and CAIN, J.B., Error Correction Coding for Digital Communications (Plenum Press, New York 1981) pp 253-264	
LW		International Search Report dated July 12, 2004, from corresponding PCT Application No. PCT/US04/014538.	
LW		LEE, EDWARD A. and MESSERSCHMITT, DAVID G., Digital Communications (Kluwer Academic Publishers, 1988) pp 371-402	
LW		SKLAR, BERNARD, Digital Communications, Fundamentals and Applications (Prentice-Hall, Inc., 1988)	
LW		UNGERBOECK, G., "Channel Coding with Multilevel/Phase Signals," IEEE Transactions on Information Theory, vol It-28, January 1982, pp 55-67	
LW		UNGERBOECK, G., "Trellis Coding Modulation with Redundant Signal Sets, Part I. Introduction." IEEE Communications Magazine, vol. 25, no. 2, Feb. 1987, pp. 5-11	

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Application Number	09/904,432
Filing Date	July 11, 2001
First Named Inventor	RAGHAVAN, Sreen
Art Unit	2638
Examiner Name	WILLIAMS, Lawrence B.
Attorney Docket Number	9146.0001-00

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
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LW		CN 2161025 Y	04-06-1994	Li	

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LW		Office Action issued by the Chinese IPO on March 17, 2006 (Our ref 9146.01-139), with English translation, 18 pages.			
LW		Response to Final Office Action filed May 1, 2006 in U.S. Appl. No. 09/965,242 (Our ref. 9146.01-01).			
LW		Response to Office Action dated March 28, 2006, in U.S. Appl. No. 10/071,771 (Our ref. 9146.01-02)			

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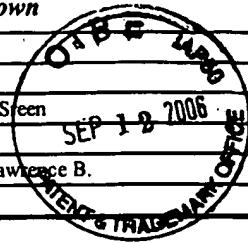
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*Complete if Known*

Application Number	09/904,432
Filing Date	July 11, 2001
First Named Inventor	RAGHAVAN, Sreen
Art Unit	2611
Examiner Name	WILLIAMS, Lawrence B.
Attorney Docket Number	9146.0001-00

**U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS**

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LW		Response to Office Action dated August 1, 2006, in U.S. Appl. No. 10/071,771 (Our ref. 9146.0001-02).	

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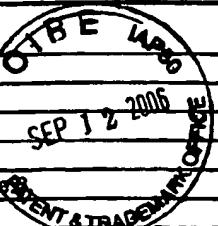
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Sheet	1	of	1	Attorney Docket Number	9146.0001-00
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SEP 12 2006

Sheet

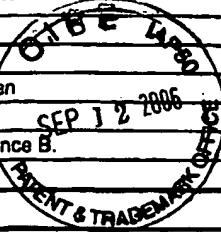
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LW		US-2004/0130483 A1	07-08-2004	Brilka et al.	
		US-4,599,732	07-08-1986	LeFever	
		US-4,995,031	02-19-1991	Aly et al.	
		US-5,604,768	02-18-1997	Fulton	
		US-5,715,280	02-03-1998	Sandberg et al.	
		US-5,844,950	12-01-1998	Aono et al.	
		US-5,852,629	12-22-1998	Iwamatsu	
		US-6,044,112	03-28-2000	Koslov	
		US-6,121,828	09-19-2000	Sasaki	
		US-6,128,114	10-03-2000	Wingo	
		US-6,351,677 B1	02-26-2002	Leyonhjelm et al.	
		US-6,441,683 B1	08-27-2002	Hwang et al.	
		US-6,522,702 B1	02-18-2003	Maruyama	
		US-6,647,071 B2	11-11-2003	Sommer et al.	
V		US-6,807,234 B2	10-19-2004	Hansen	
LW		US-6,831,954 B1	12-14-2004	Mandyam	

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IDS Form PTO/SB/08: Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<i>Application Number</i>	09/904,432
<i>(Use as many sheets as necessary)</i>				<i>Filing Date</i>	July 11, 2001
				<i>First Named Inventor</i>	RAGHAVAN, Sreen
				<i>Art Unit</i>	2638
				<i>Examiner Name</i>	WILLIAMS, Lawrence B.
Sheet	2	of	2	<i>Attorney Docket Number</i>	8146.0001-00

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